

NX 6 - Mold Design through Manufacture Process Optimization

Aaron Frankel Senior Marketing Manager



Key Business Issues



- for mold and die tool manufacture

How to:

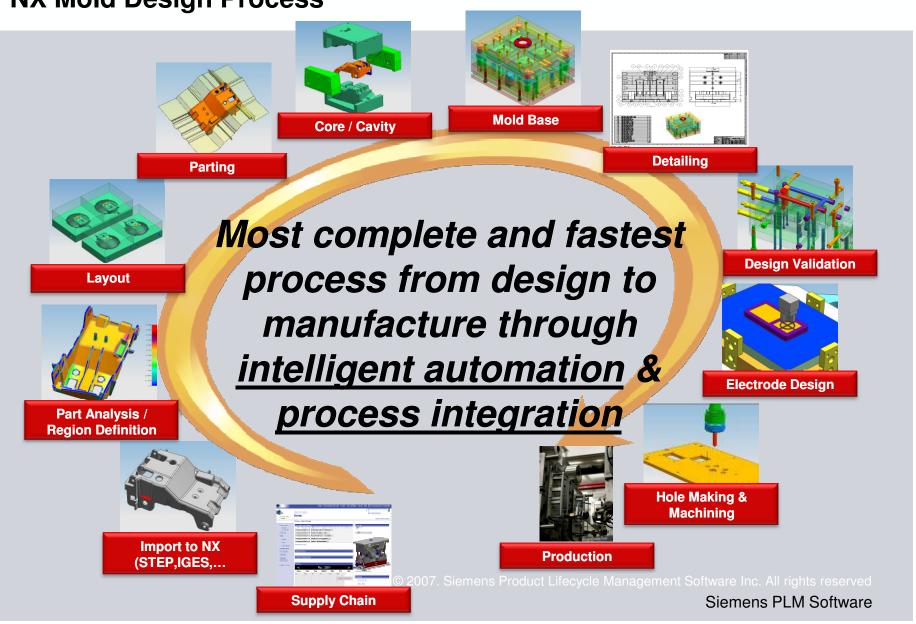
- Compete on price
- > Shorten delivery times
- ➤ Win on complex jobs <
- ➤ Meet quality demands_k

Global competition

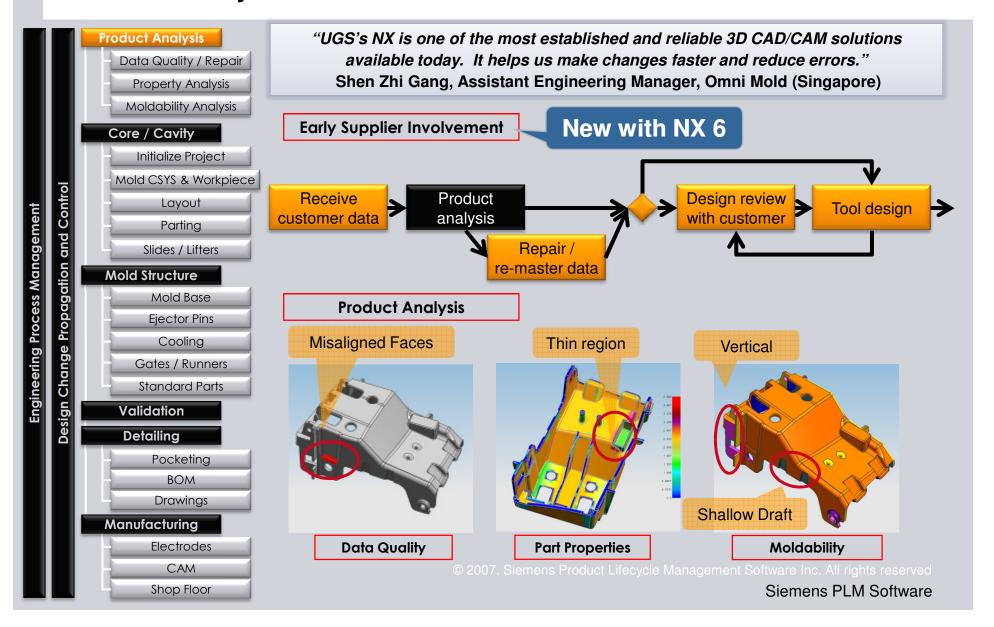
Products are more complex, no margin in simple jobs

Today's consumers expect high quality

NX Mold Design Process

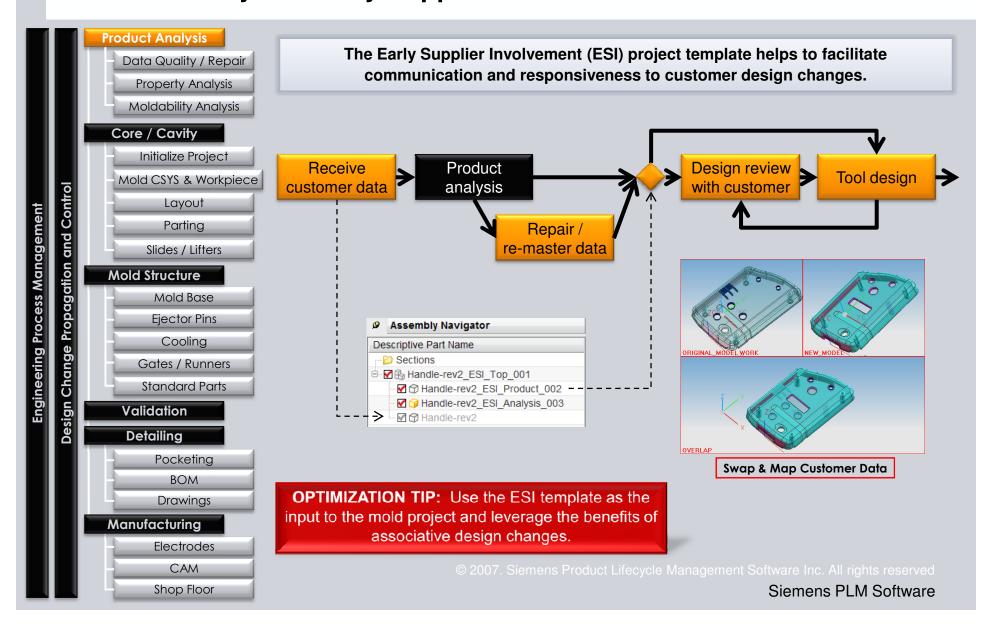


Product Analysis

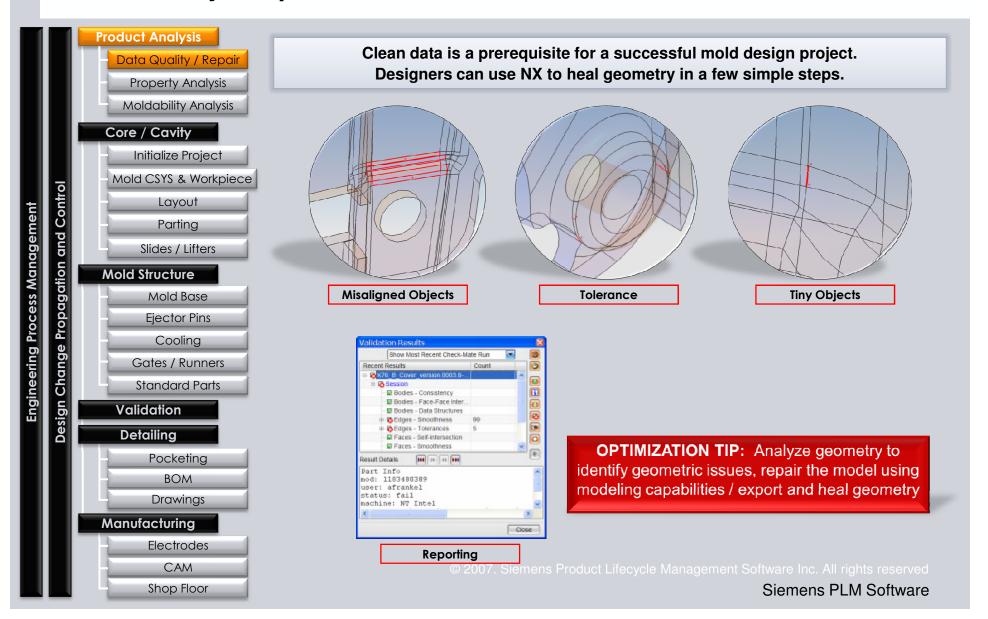




Product Analysis - Early Supplier Involvement



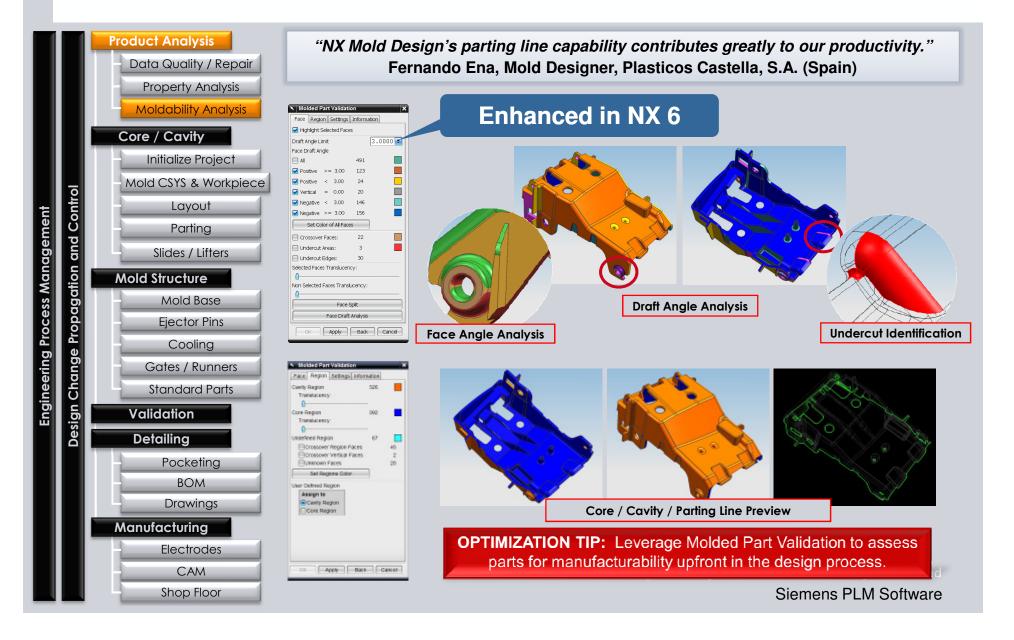
Data Quality / Repair



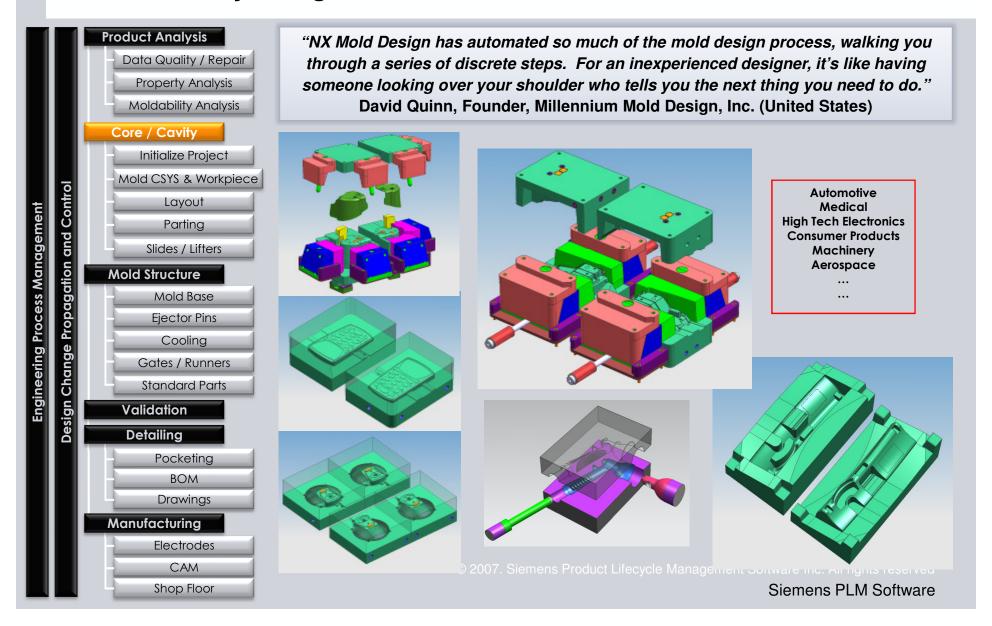
Property Analysis



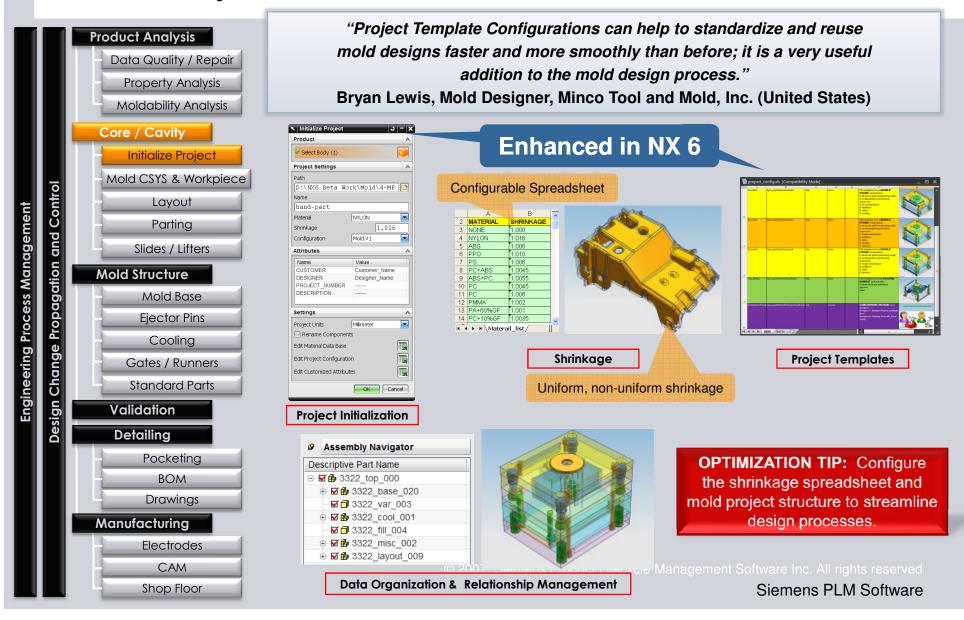
Molded Part Validation



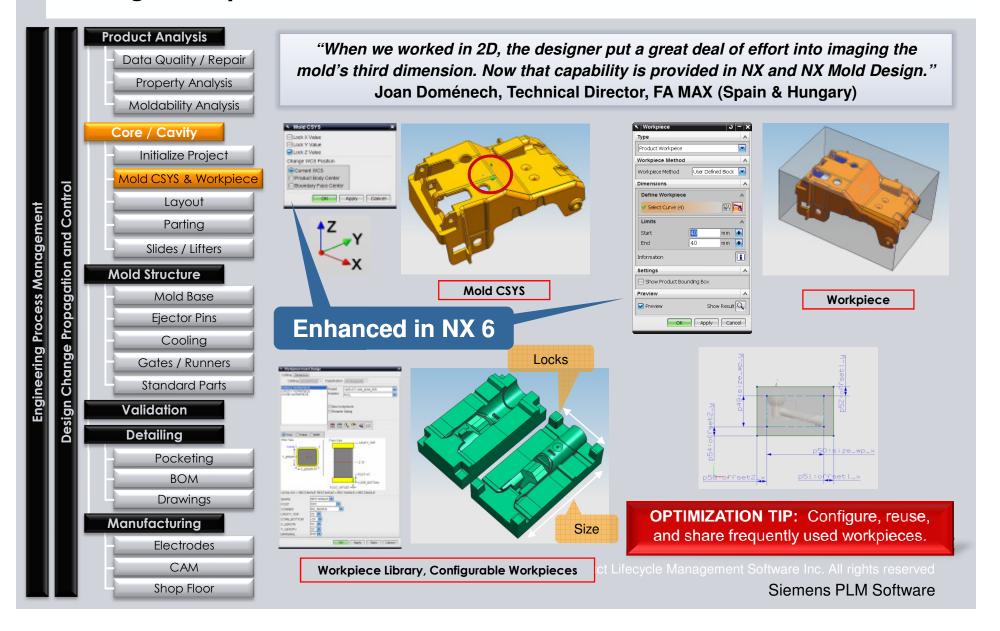
Core & Cavity Design



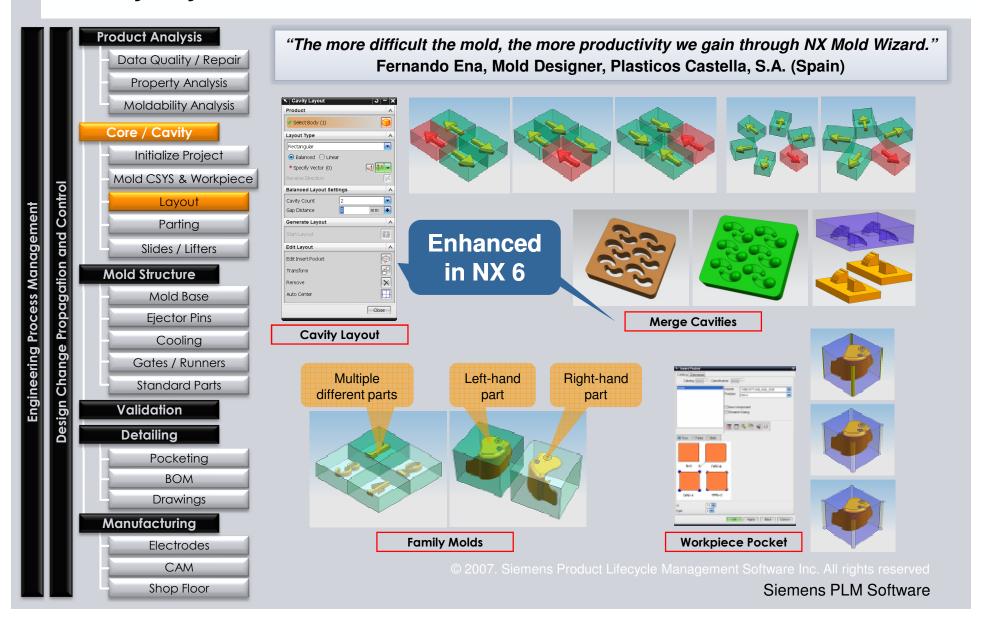
Initialize Project



Design Setup

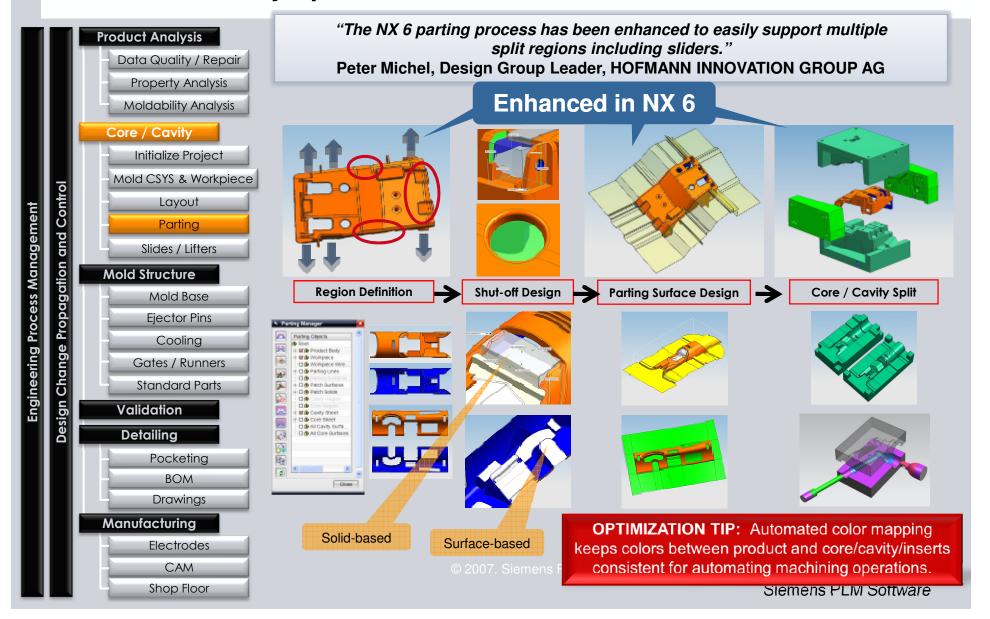


Cavity Layout

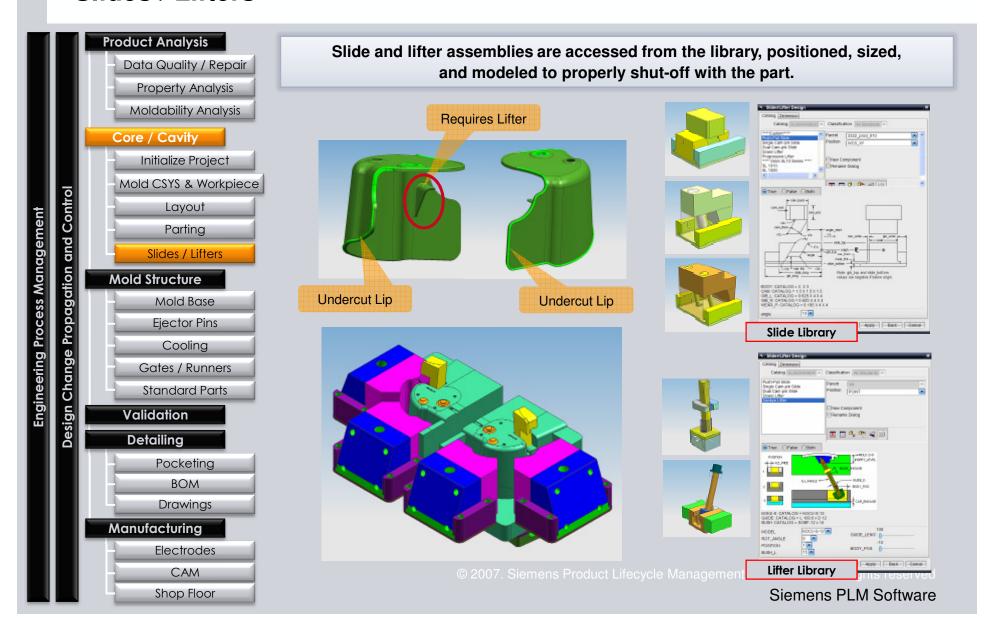


Region Definition, Shut-offs, Parting, and Core / Cavity Split

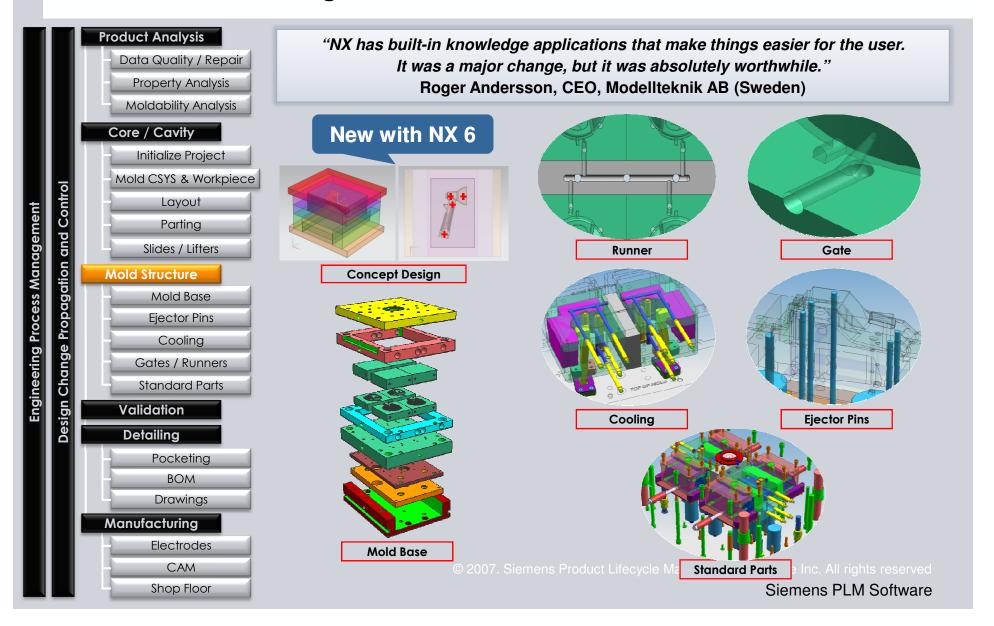
SIEMENS



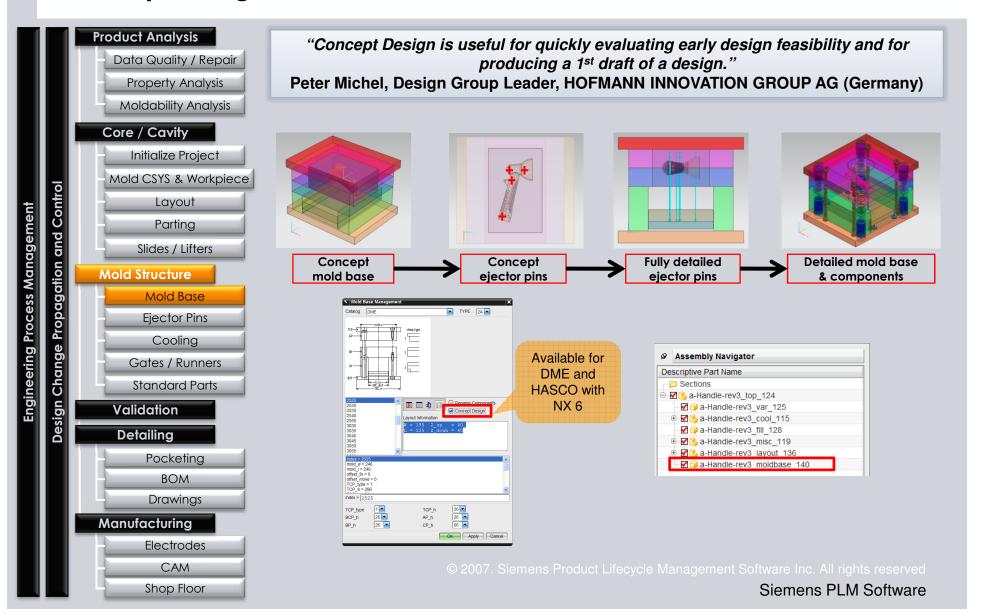
Slides / Lifters



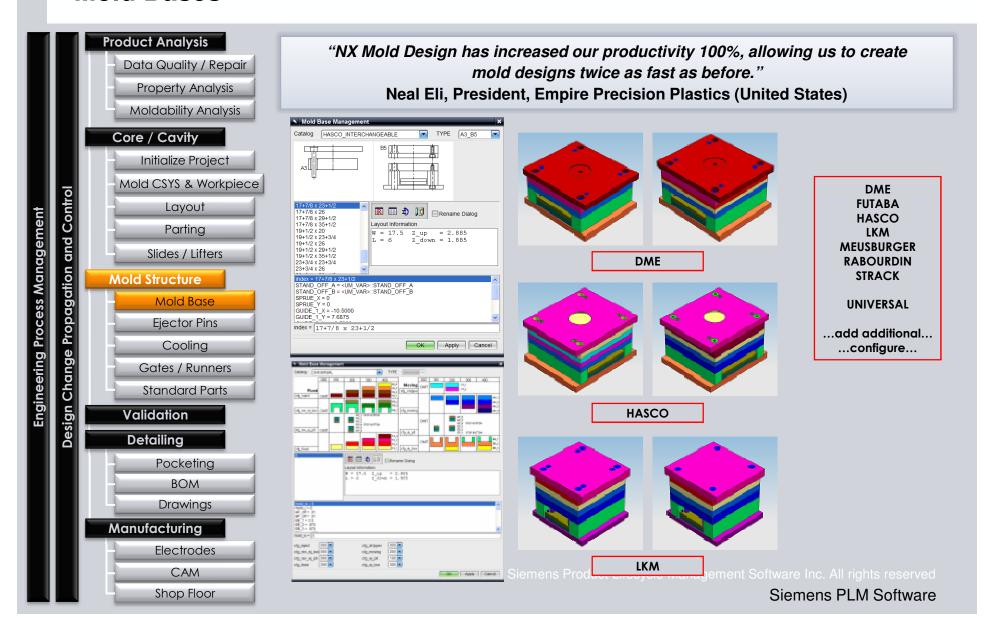
Mold Structure Design



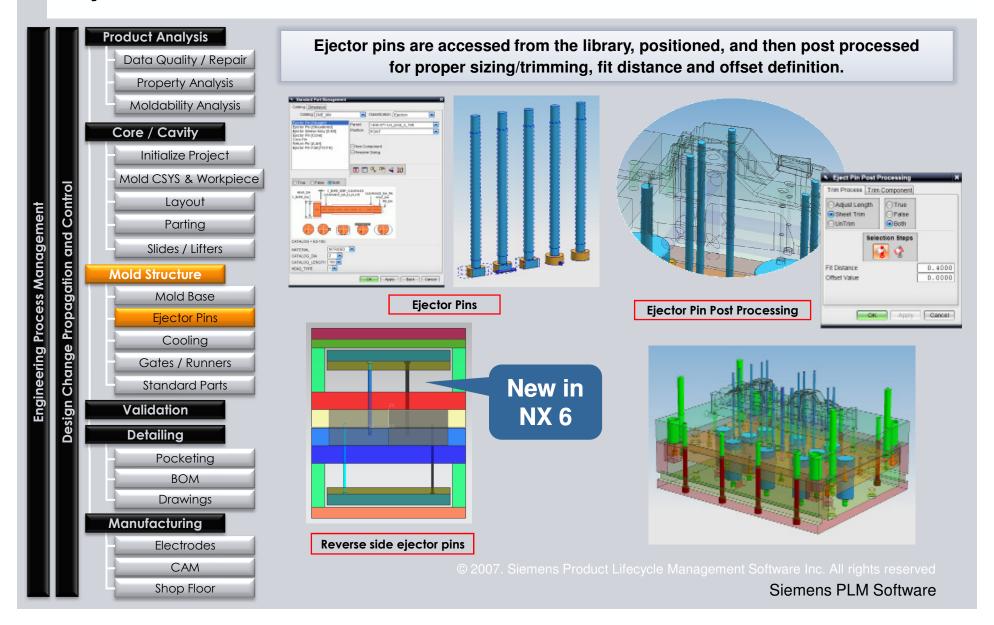
Concept Design



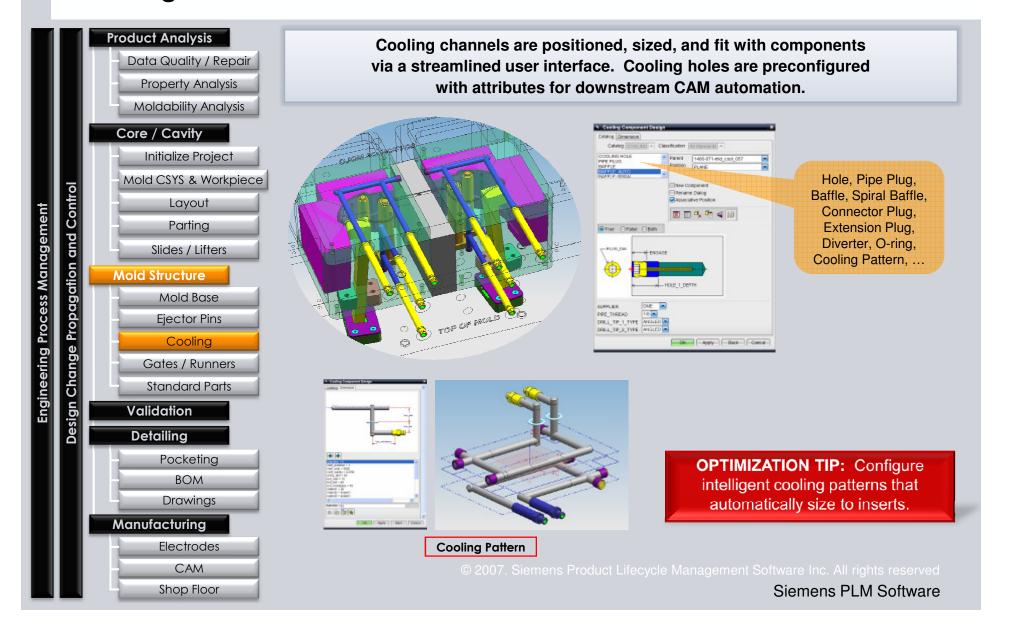
Mold Bases



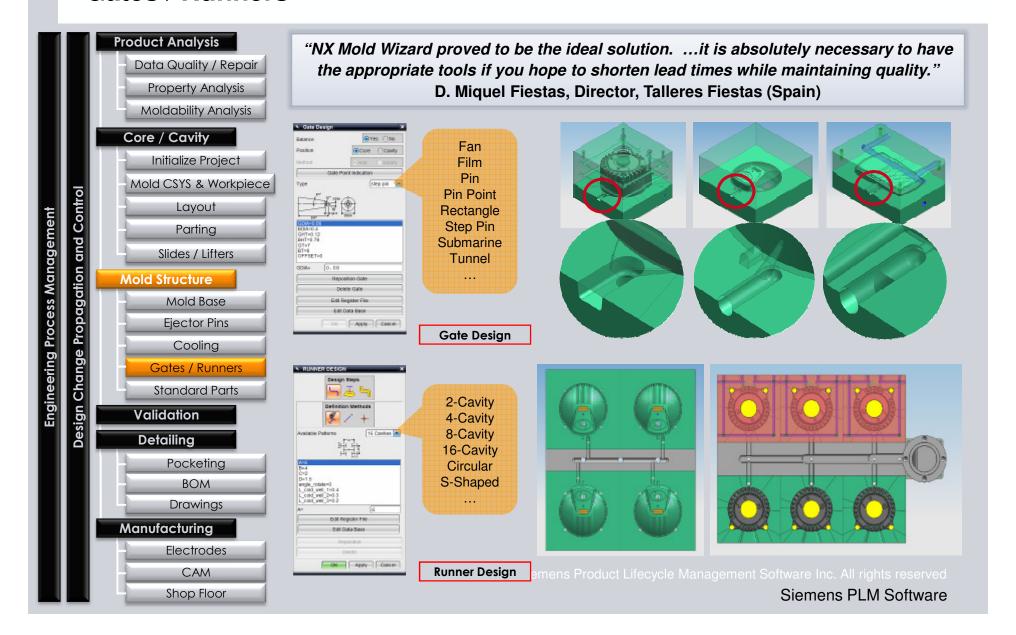
Ejector Pins



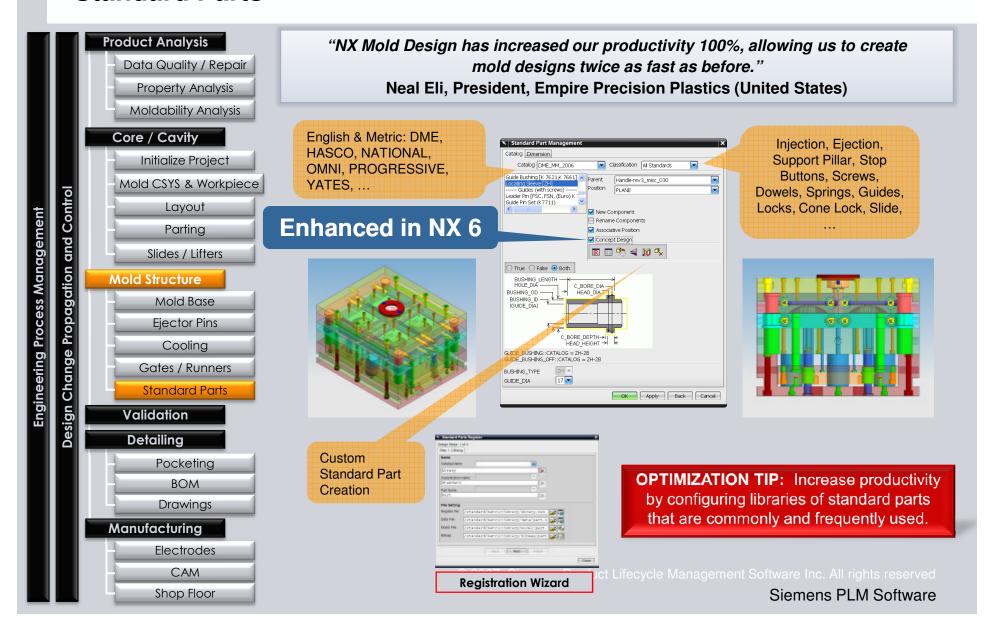
Cooling



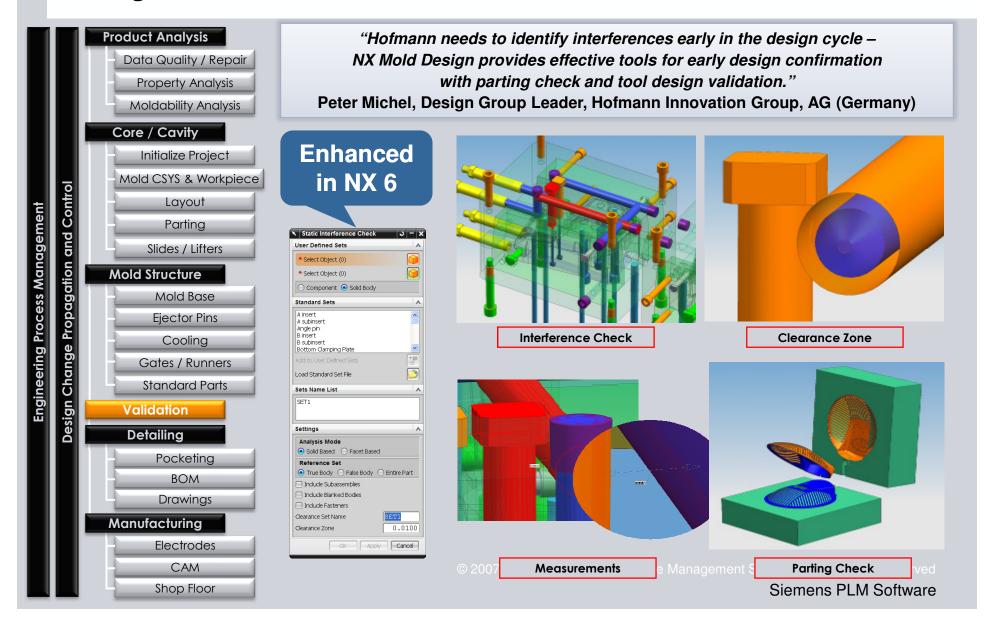
Gates / Runners



Standard Parts



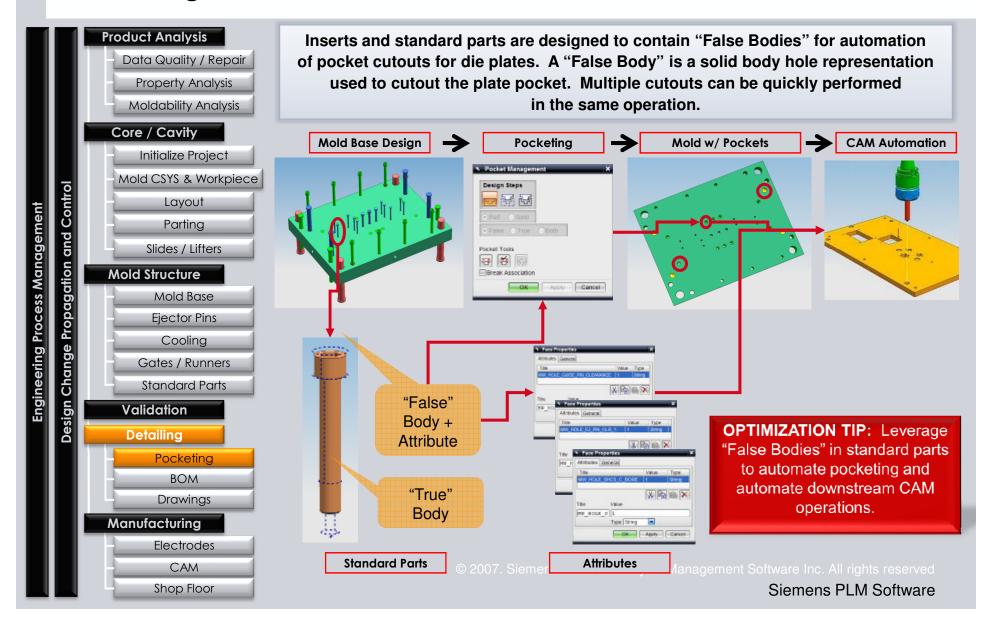
Design Validation



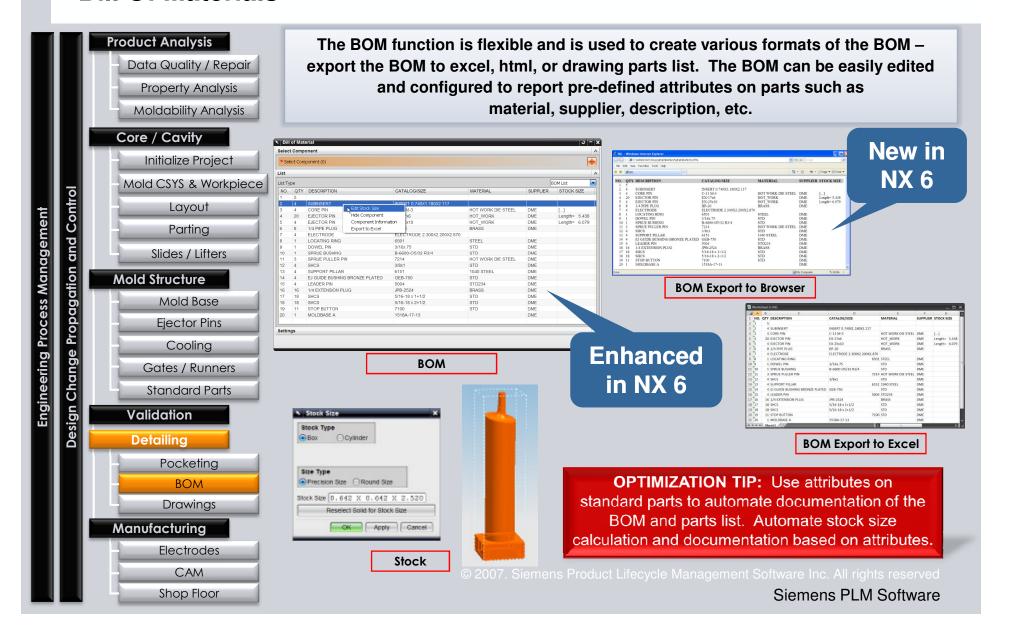
Mold Design Detailing



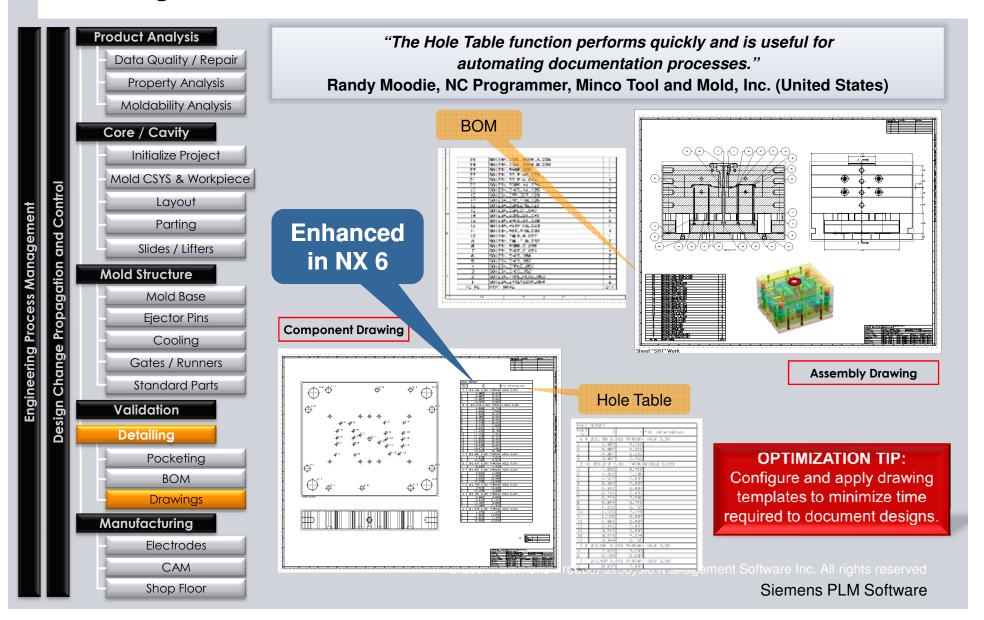
Pocketing



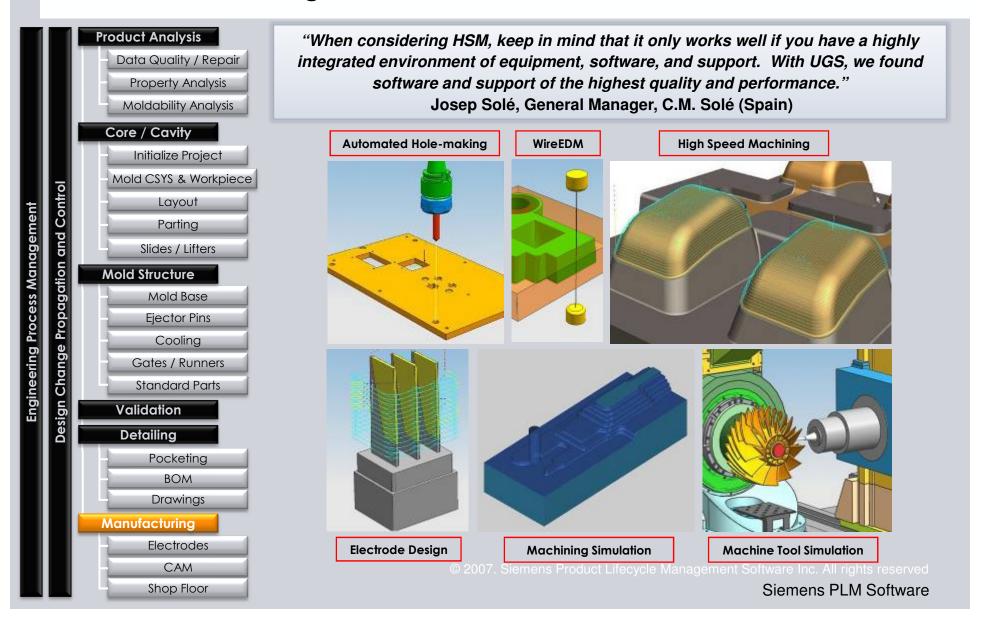
Bill Of Materials



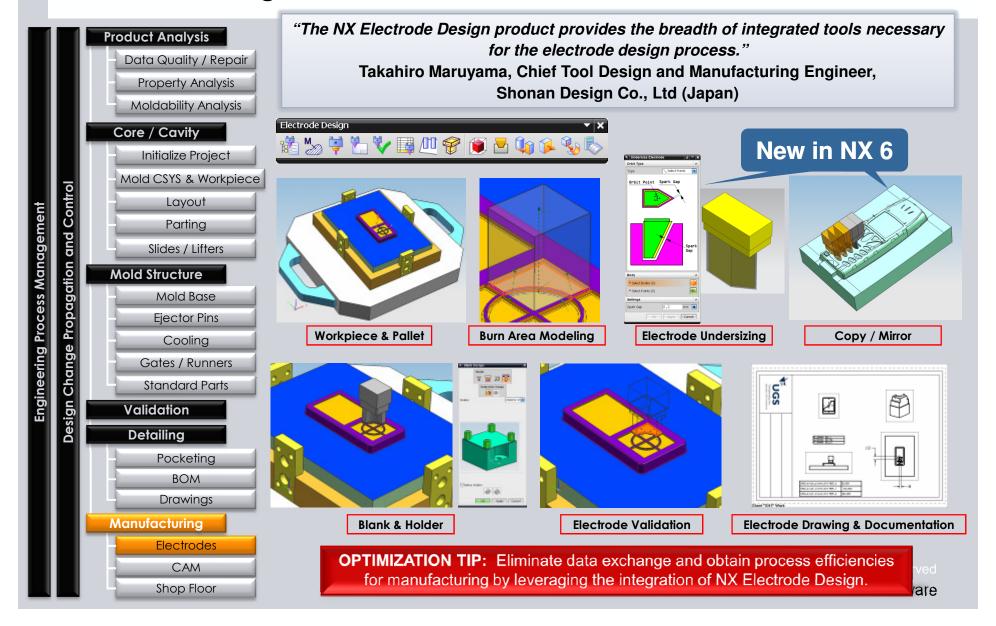
Drawing Automation / Creation



Mold Manufacturing



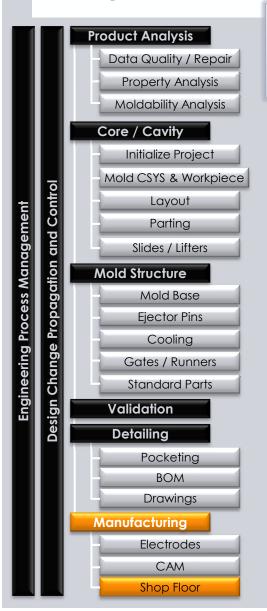
Electrode Design & Documentation Process



CAM



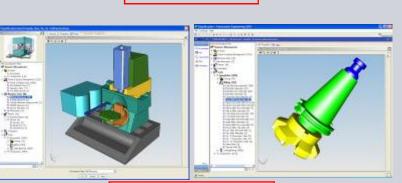
Shop Floor



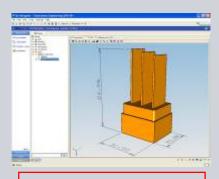
"A big benefit of NX and automation is that we are able to move through design and CAM quickly and get the job down to the shop floor as soon as possible, giving the operators everything they need to do their jobs, without requiring blueprints."

John Kuran, Systems Engineer, Dependable Pattern Works (United States)

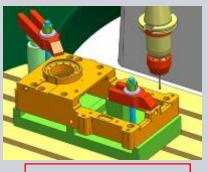




Resource Management



Shop Floor Visualization

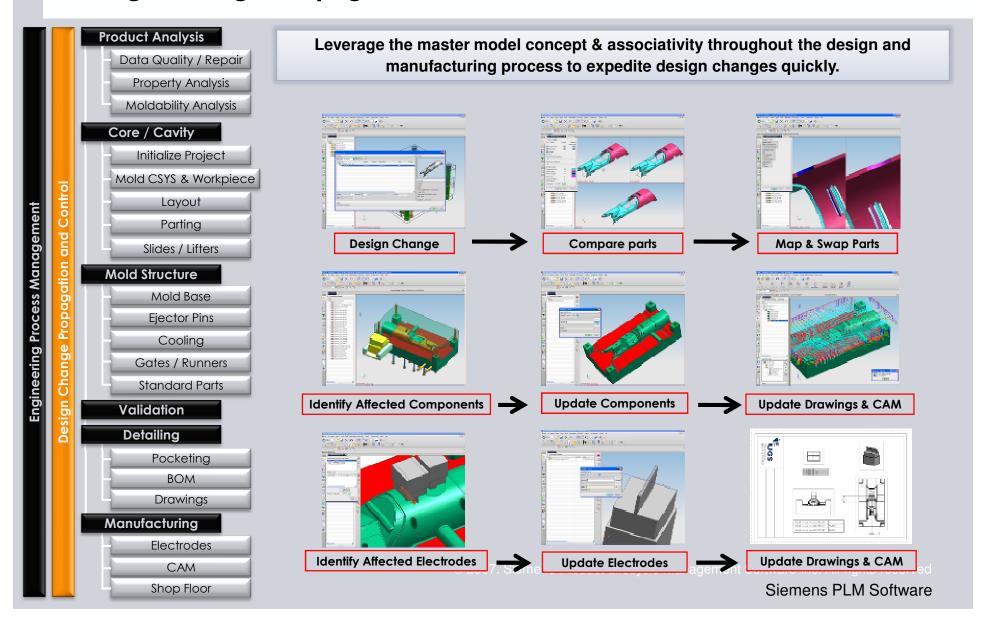


Quality / Inspection

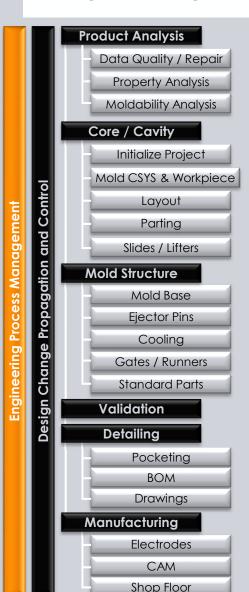
OPTIMIZATION TIP: Use data management and visualization capabilities to find and view parts for manufacturing and assembly.

Siemens PLM Software

Design Change Propagation & Control

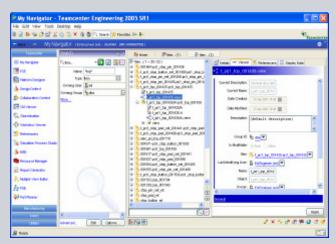


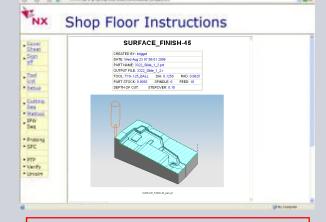
Engineering Process Management



"Revision control was our biggest problem in the past. When we had the different departments working with different software, it was very hard to ensure that everyone was working with up-to-date information. With Teamcenter, we have a tight system of revision control. Between that and the single source data model approach, everyone is accessing up-to-date geometry in real time."

Vince Travaglini, Vice President, Engineering, Stackteck (Canada)





Project Data & Process Management

Manufacturing Data & Process Management

OPTIMIZATION TIP: Leverage Teamcenter to employ project data management and manage revisions, workflows, connect processes between divisions.

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Thank you.